#13

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/750,590

DATE: 09/21/2001 TIME: 18:46:17

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\09212001\I750590.raw

ENTERED

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4 <110> APPLICANT: Ira Herman
        Alice Welch
7 <120> TITLE OF INVENTION: BETA-CAP73 CONTROL OF NORMAL AND
        ABNORMAL CELL MIGRATION
10 <130> FILE REFERENCE: TUI-001CP
12 <140> CURRENT APPLICATION NUMBER: US 09/750,590
13 <141> CURRENT FILING DATE: 2000-12-28
15 <150> PRIOR APPLICATION NUMBER: 60/170,182
16 <151> PRIOR FILING DATE: 1999-12-10
18 <150> PRIOR APPLICATION NUMBER: 09/733,818
19 <151> PRIOR FILING DATE: 2000-12-08
21 <160> NUMBER OF SEQ ID NOS: 3
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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26 <211> LENGTH: 4730
27 <212> TYPE: DNA
28 <213> ORGANISM: Bos taurus
30 <220> FEATURE:
31 <221> NAME/KEY: CDS
32 <222> LOCATION: (392)...(4597)
34 <400> SEQUENCE: 1
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36 gggaaggcag agaaagacat cttctaaata acaaatagga ggagttacag tacctgactt 120
37 ggggctgctc ttaatcaagt gctgccgctg caaggaagat aattttcaag cgttatgaag 180
38 gcggagaagg attccgaaga cgaagaaaat atccttagag atccaagcta agtgtagtgc 240
39 agcatgaaga ttgcagaaca ggaagagttc taagaagaag gactgagtca ctagttagga 300
40 gtctctctga gggctggctt tgtgagccac agtgatttgt aacttaatgc gaactaattt 360
41 gctgttagca acaagaaact aaatcctgtc t atg atg agc tgt tgg ttt tct
                                                                      412
                                       Met Met Ser Cys Trp Phe Ser
42
43
45 tgt gct cct aag aac aga caa gca gca gat tgg aac aaa tac gat gac
                                                                       460
46 Cys Ala Pro Lys Asn Arg Gln Ala Ala Asp Trp Asn Lys Tyr Asp Asp
            10
47
49 cga ttg atg aga gca gca gaa agg gga gat gta gaa aaa gtg tcc tca
                                                                       508
50 Arg Leu Met Arg Ala Ala Glu Arg Gly Asp Val Glu Lys Val Ser Ser
53 atc ctt gct aaa aag gga gtc aat cca ggc aag cta gat gta gaa ggc
                                                                       556
54 Ile Leu Ala Lys Lys Gly Val Asn Pro Gly Lys Leu Asp Val Glu Gly
                         45
57 aga tot goo ttt cat gtt gtg goo toa aag gga aat ott gag tgt ttg
                                                                       604
58 Arg Ser Ala Phe His Val Val Ala Ser Lys Gly Asn Leu Glu Cys Leu
                     60
 61 aat gcc atc ctc ata cat gga gtt gat att aca acc agt gac acc gca
                                                                       652
 62 Asn Ala Ile Leu Ile His Gly Val Asp Ile Thr Thr Ser Asp Thr Ala
                                                          85
                                     80
                 75
 65 gga agg aat gct ctt cac ctg gct gca aag tat ggg cat gca ctg tgt
                                                                       700
 66 Gly Arg Asn Ala Leu His Leu Ala Ala Lys Tyr Gly His Ala Leu Cys
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		95	100		
67 90 69 cta caa aaa ctt	cta cag tac a			gta gac ctg	748
70 Leu Gln Lys Leu	Leu Gln Tyr A	sn Cys Pro	Thr Glu His	Val Asp Leu	
71 105	110		115		706
72 cag gga aga act	gca ctt cat g	at gca gct	atg gca gac	tgt cct tct	796
74 Gln Gly Arg Thr	Ala Leu His A	sp Ala Ala	Met Ala Asp	Cys Pro Ser 135	
75 120	125		130		844
77 agc ata cag ctg 78 Ser Ile Gln Leu	ctc tgc gac c	at ggg gcc	Ser Val Asn	Ala Lvs Asp	•
	140	145 145	DCI VAI IIDII	150	
79 81 gta gat ggg cgg	aca cca ctt o	itt ctg gct	acc cag atg	tgt agg cca	892
82 Val Asp Gly Arg	Thr Pro Leu V	al Leu Ala	Thr Gln Met	Cys Arg Pro	
83 155		160		100	0.4.0
85 aca ata tgt caa	ctg ctg ata g	gat aga ggg	gcg gat att	aat too aga	940
86 Thr Ile Cys Gln			Ala ASP IIE	ASH SEL ALG	
87 170 89 gac aaa caa aac		175 ata ata ata		tat ggt tgc	988
90 Asp Lys Gln Asn	Arg Thr Ala I	Gen Met Lei	Gly Cys Glu	Tyr Gly Cys	
01 185	190		195		
03 aaa dat doa dta	. gaa gtc tta a	atc aaa aac	ggc gct gac	gtg acc ttg	1036
94 Lys Asp Ala Val	Glu Val Leu	Ile Lys Ası	n Gly Ala Asp	val Thr Leu	
95 200	205		210	213	1084
97 ctg gac gcc ctt	ggc cat gac a	agt tot tac	c tat gca aya	Tie Giv Asp	1004
98 Leu Asp Ala Leu	220	22!	i iyi ara mry	230	
99 101 aat ctg gac at	t cta acc tta	ctq aaq a	ct gca tca gaa	a aat tcc aac	1132
102 Asn Leu Asp Il	e Leu Thr Leu	Leu Lys T	nr Ala Ser Gl	ı Asn Ser Asn	
103 23	35	240		245	1100
105 aaa ggg aga ga	ıa ctt tgg aag	aaa gga c	ca tot tta caa	a cag cga aat	1180
106 Lys Gly Arg Gl	Lu Leu Trp Lys	Lys Gly P:	ro ser Leu Gi	n Gin Aig Asn	
107 250 109 ttg tct cag at	a ota dat daa				1228
110 Leu Ser Gln Me	et Leu Asp Glu	Val Asn T	hr Lys Ser As	n Gln Arg Glu	
111 265	270		275		
113 cat caa aac at	t cag gat ctg	gag att g	aa aat gaa ga	t ctg aaa gag	1276
114 His Gln Asn Il	le Gln Asp Leu	Glu Ile G	lu Asn Glu As	p Leu Lys Glu 295	
115 280	285		290 ~~ ~+ ~ ++ ~ ++		1324
117 aga ttg aga aa 118 Arg Leu Arg Ly	aa att cag caa	gaa cag a	ya ala ila ili ra Tle Leu Le	n Asp Lvs Val	1021
	300 300		05	310	
121 aat ggt tta Ca	ag cta cag ctg	aat gag g	aa gta atg gt	g gct gat gat	1372
122 Asn Gly Leu Gl	ln Leu Gln Leu	Asn Glu G	lu Val Met Va	I AIA ASP ASP	
123 33	15	320		325	1420
125 ctg gaa agt ga	ag aaa gaa aag	ctg aag t	cc ctt ttg gc	a gcc aaa gaa	1420
126 Leu Glu Ser G	lu Lys Glu Lys	Leu Lys S 335	er Leu Leu Al 34	u wia nya gia	
127 330 129 aag cag cat ga	aa maa amo ota				1468
130 Lys Gln His G	aa gaa ago cca lu Glu Ser Leu	Arg Thr I	le Glu Ala Le	u Lys Ser Arg	
130 Lys GIR HIS G	350)	355		
101 010					

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134	Phe	aag Lys	tat Tyr	ttt Phe	gag Glu	agt Ser 365	gat Asp	cat His	tta Leu	gga Gly	tca Ser 370	gga Gly	agt Ser	cat His	ttc Phe	agg Arg 375	1516
135	360	~~~	gat	ata	att	202	aaa	caa	aat.	caa		tac	atg	aca	gac	tca	1564
13/	aaa	Glu	Asp	Met	T.eu	Len	Lvs	Gln	Glv	Gln	Met	Tyr	Met	Thr	Åsp	Ser	
130					380					385					390		
1/1	cad	tat.	act	tcc	aca	qqc	atg	cca	gtc	cat	atg	caa	agc	cga	tct	atg	1612
142	Gln	Cvs	Thr	Ser	Thr	Gly	Met	Pro	Val	His	Met	Gln	Ser	Arg	Ser	Met	
1/3				395					400					405			1.660
145	tta	aga	cca	ctg	gag	cta	gcc	tta	cct	aat	caa	gcc	tca	tat	tcg	gaa	1660
146	Leu	Arg	Pro	Leu	Glu	Leu	Ala	Leu	Pro	Asn	Gln	Ala	ser	Tyr	ser	GIU	
147			410					415			a + a	202	420	tta	tat	σat	1708
149	aac	gaa	att	tta	aag	aaa -	gaa	tta	gaa	gca	Mot	Ara	Thr	Dho	Cvs	Asp	1,00
	Asn		Ile	Leu	Lys	Lys		Leu	GIU	Ala	met	435	1111	rnc	Cyb	no _P	
151		425	aaa		~~~	202	430	222	ctc	caa	aat		cta	act	cac	aaq	1756
153	tca	gca	aaa Lys	Cla	yac	Ara	Len	Lvs	Len	Gln	Asn	Glu	Leu	Ala	His	Lys	
	440	Ата	гур	GIII	кър	445	пси	L 15	Lea		450					455	
157	ata	aca	gag	tac	aaσ	acc	tta	qca	ttg	gaa	tgt	gaa	agg	gtg	aaa	gag	1804
158	Val	Ala	Glu	Cvs	Lvs	Ala	Leu	Ăla	Leu	Ğlu	Cys	Glu	Arg	Val	Lys	Glu	
150					460					465					4/0		
161	gat	tca	gat	gag	cag	ata	aag	caa	cta	gaa	gat	gcc	ttg	aaa	gac	gtg	1852
162	Āsp	Ser	Asp	Glu	Gln	Ile	Lys	Gln	Leu	Glu	Asp	Ala	Leu	гàг	Asp	Val	
163				475					480					485			1900
165	cag	aag	aga	atg	tat	gag	tcg	gaa	ggt	aaa	gtg	aaa	caa	atg	cag	aca mb~	1900
166	Gln	Lys	Arg	Met	Tyr	Glu	Ser	Glu	Gly	Lys	Val	Lys	500	Met	GIII	THE	
167			490					495	a+ a	2.02	20+	rat		acc	act	aaa	1948
169	cat	ttt	ctt Leu	gcc	ttg	aaa	gag	Cac	Lou	Thr	ger	Asn	Ala	Ala	Thr	Glv	
				Ата	ьeu	ьуѕ	510	птэ	пец	1111	DCI	515	****			2	
171		505	200	ata	ato	σασ	gaa	cta	ааσ	gat	caq		aaa	gac	atg	aaa	1996
174	A a n	Uic	Arg	T.eu	Met	Glu	Glu	Leu	Lys	Asp	Gln	Leu	Lys	Åsp	Met	Lys	
	520		nrg	шец		525			_	-	530					535	
177	ata	aaa	tac	σaa	aat	aca	tcc	gca	gaa	gtg	ggg	aaa	ttg	aga	aac	caa	2044
178	Val	Lvs	Tyr	Ğlu	. Ĝĺy	Ala	Ser	Ala	Glu	Val	Gly	Lys	Leu	Arg	ASII	GIII	
170					540					545					220		2002
181	atc	aaa	caa	aat	gaa	atg	tta	gtt	gaa	gag	ttt	. aag	aga	gat	gag	ggc	2092
182	lle	Lys	Gln	Asn	Glu	Met	Leu	Val	Glu	Glu	Phe	Lys	Arg	Asp	GIU	Gly	
183	}			555	,				560					565		+ a+	2140
185	aag	ctg	atg	gaa	gag	aat	aag	cga	ctg	cag	aag	gay	LLY	Gor	· Mot	tgt	2140
		Leu			Glu	Asn	Lys	Arg	Leu	GID	гу	GLU	. Бец 580	261	мес	Cys	
187	'		570					575		220	cto	act			т ста а	aac	2188
189	gaa	ctg	gag	cga	gag	aay	aya Ara	yya Clu	. ayy	T.VS	Len	Thr	. gus	Met	Glu	ggc Gly	
				Arg	l GTO	ггуз	590	i Gily	n. y	Lys	БСС	595	,			-	
191	L 2	585	, ,,,,,,		, ttc	r tca			r eta	σcc	ctt			cca	gca	gag	2236
193	cay Lain	LL0 T.D1	i aay	Agr	Lei	. Ser	Ala	Lys	Leu	Ala	Leu	ı Ser	: Ile	Pro	Ala	Glu	
195	600)				605	;				610)				913	
197	aaa7	ttt	; caa	aac	ato	aaq	ago	tto	, tta	tca	aat	gaa	ctg	aac	gag	aag	2284
			·		•		-	-									

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	Lys	Phe	Glu	Asn	Met 620	Lys	Ser	Leu	Leu	Ser 625	Asn	Glu	Leu	Asn	Glu 630	Lys	
199	~~~			++=		πat	ata	αaa	аσа		tat	gaa	aga	tca	ctt	aat	2332
Z01	gca	aaa Ta	Trra	Lua	Tla	Acn	Val	Glu	Ara	Glu	Tvr	Glu	Arg	Ser	Leu	Asn	
	Ата	ьуѕ	гуѕ		116	тэр	vuı	Olu	640	014	-1-			645			
203				635		224	202	722		aaa	aat	ttα	ааσ		aaa	cta	2380
205	gaa	act	aga	cca	tta.	aag	aya	gaa	Tou	Clu	Acn	LOU	aag Lvs	Δla	Lvs	Len	
	Glu	Thr		Pro	Leu	ьys	Arg		ьeu	Gru	ASII	пец	Lys 660	AIU	шуб	LCu	
207			650					655				ata		240	ana	tta	2428
209	gct	cag	cac	gtc	aaa	cca	gag	gaa	cat	gag	cay	CLC	aag	ayc cor	Ara	LOU	2420
210	Ala	Gln	His	Val	Lys	Pro		GLu	HIS	GIU	GTII	Leu	Lys	ser	AIG	пец	
211		665					670					675			2.22	+ 00	2476
213	gag	cag	aag	tca	gga	gaa	ctt	ggg	aag	agg	atc	act	gag	tta	aca	ccg	2470
214	Glu	Gln	Lys	Ser	Gly	Glu	Leu	Gly	Lys	Arg	He	Thr	Glu	Leu	Thr	ser	
215	680					685					690					695	0504
217	aaa	aat	cag	acg	tta	caa	aag	gaa	atc	gaa	aag	gtc	tgc	ctg	gat	aat	2524
218	Lys	Asn	Gln	Thr	Leu	Gln	Lys	Glu	Ile	Glu	Lys	Val	Cys	Leu	Asp	Asn	
219					700					705					110		
221	aaσ	ctc	ctt	aca	caa	caa	gta	aat	aac	tta	aca	act	gaa	atg	aaa	aat	2572
222	Lvs	Leu	Leu	Thr	Gln	Gln	Val	Asn	Asn	Leu	Thr	Thr	Glu	Met	Lys	Asn	÷
223				715					720					/25			
225	atc	cct	t.t.a	aaa	gta	agt	gaa	gaa	atg	aaa	aag	tca	cat	gat	gta	att	2620
226	Val	Pro	Len	Lvs	Val	Ser	Ğlu	Ğlu	Met	Lys	Lys	Ser	His	Asp	Val	Ile	
227	141	110	730	-1-				735		_	_		740				
227	att	gat	gat	ttα	aat	aaa	aaσ	ctt	tca	gat	gtg	aca	cac	aaa	tat	aca	2668
227	y c c	λen	Acn	T.e.II	Asn	Lvs	Lvs	Leu	Ser	Āsp	Val	Thr	His	Lys	Tyr	Thr	
	Val	745	пор	пси	11011		750			-		755		_			
231	~~~	743	220	++ <i>a</i>	паа	atσ		ааσ	t.t.a	ctt	atq	gaa	aat	qcc	agt	tta	2716
233	yaa al	aay	Trra	LLY	Clu	Mot	Glu	Lvs	Len	Len	Met.	Glu	Asn	Ăla	Ser	Leu	
		гур	гуу	neu	GIU	765	014		204		770	_				775	
233	760		+	a+ a	3.00		ata	паа	act	ata			cct	ccc	gag	aga	2764
23/	agt	aaa	aat	37.1	Cor	A ra	Lou	Glu	Thr	Val	Phe	Tle	Pro	Pro	Ğlu	Arq	
	ser	гуѕ	ASII	Val			пец	GIU	1111	785					790	_	
239					780	2+4	aat	ata	222			ato	act	σаа	ctt	aag	2812
241	cac	gaa	aaa	gaa	aly	aly	312	Tou	Twe	Cor	Δen	Tle	Thr	Glu	Leu	Lys	
		GIu	ьуs			мес	Ата	Leu	800	261	ASI	. 110		805		-1 -	
243				795		-++	t			+ a+	aat	σаа	gac			aaa	2860
245	aag	cag	ctg	tct	gaa	CLL	aat	aaa	Two	Ctro	Glu	. gaa	λen	Gln	Glu	aaa Lvs	
		GIn			Glu	Leu	ASII	ьуs 815	ьуѕ	Cys	СТУ	GIU	820	0111	. 014	Lys	
247			810							~ - t	++-			200	ato	agt	2908
249	ata	tat	tca	ctc	atg	tct	gaa	aac	aat	yau	tou	Tre	Tura	Thr	· Mot	agt	
250	Ile	Tyr	Ser	Leu	Met	Ser	GIU	Asn	ASI	ASP	ьеи	DУS	. груз	1 111	Mec	Ser	
251		825					830					835		20+	~~~	++~	2956
253	cat	cag	tat	gtg	ccc	gtg	aaa	acc	cat	gaa	gag	all	. aaa	mh	. ycc	ttg	2,50
			Tyr	Val	Pro			Thr	HlS	GIU	GIU	1 176	: гуѕ	1.111	нта	Leu 855	
255	840					845					850			~+ -			3004
257	agt	ago	aca	ttg	gat	aaa	acc	aat	. aga	gaa	. tta	gta	gat	gtg	aag	aag	2004
258	Ser	Ser	Thr	Leu	Asp	Lys	Thr	Asn	Arg	Glu	Leu	ı Val	. Asp	val	. ьуs	Lys	
259					860)				865	i				870	l	2052
261	aag	tgt	gaa	gat	. ata	aat	caa	gaa	ttt	. gtg	aaa	ı ata	aaa	gat	. gag	aac	3052
262	Lys	Cys	Glu	Asp	Ile	. Asr	Gln	Glu	Phe	val	Lys	; Ile	. Lys	ASP	GLU	Asn	

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263				875				~~~	880	aat	a 2 a	220	caa		aaa	act	3100
265	gaa	ata	tta	aaa	aga	aat	CLG	gay	Agn	αCL πh∞	Cln	Acn	Cln	Val	Lvs	Δla	3100
	GIu	TTE	Leu	ьуs	Arg	ASII	ьeu		ASII	1111	GIII	ASII	900	VUI	шуо	ALG	
267			890					895	~	~~~	224	2+4		ααο	cta	ann	3148
269	gag	tac	atc	agc	cta	aga	gag	cat	gaa	gaa	aay	Mot	Con	99C	Lou	agg	3140
	Glu	_	Ile	Ser	Leu	Arg		Hls	GIU	GLU	Lys		Ser	GIY	пеп	AIG	
271		905					910					915	.+.	a+ a	aat.	224	3196
273	aag	agc	atg	aag	aag	gtc	cag	gac	aac	agc	gct	gaa	ala	CLY	315	aay	3130
274	Lys	Ser	Met	Lys	Lys		Gln	Asp	Asn	Ser		Glu	тте	Leu	Ala	TAR	•
275	920					925					930					935	2244
277	tac	aaa	aaa	agc	cag	gag	gag	att	gtc	acc	ctg	cat	gag	gag	att	gca	3244
278	Tyr	Lys	Lys	Ser	Gln	Glu	Glu	Ile	Val		Leu	His	Glu	Glu	IIe	Ala	
279					940					945					950		2000
281	gcc	cag	aag	aga	gaa	ctc	gac	acg	ata	cag	gaa	tgc	atc	aag	cta	aaa	3292
282	Ala	Gln	Lys	Arg	Glu	Leu	Asp	Thr	Ile	Gln	Glu	Cys	Ile	Lys	Leu	Lys	
283				955					960					965			
285	tat	gct	ccg	atc	atc	agc	ttg	gaa	gag	tgt	gag	aga	aaa	ttt	aaa	gcc	3340
286	Tyr	Ala	Pro	Ile	Ile	Ser	Leu	Glu	Glu	Cys	Glu	Arg	Lys	Phe	Lys	Ala	
287			970					975					980				
289	act	gag	aaa	gaa	cta	aaa	gaa	cag	cta	tcc	cag	cag	aca	cag	aag	tat	3388
290	Thr	Glu	Lys	Glu	Leu	Lys	Glu	Gln	Leu	Ser	Gln	Gln	Thr	Gln	Lys	${ t Tyr}$	
291		98					990					99!					
293	aat	acc	agt	qaa	qaa	gag	gcc	aag	aag	tgc	aag	caa	gag	aat	gac	aag	3436
294	Asn	Thr	Ser	Glu	Glu	Glu	Ala	Lys	Lys	Cys	Lys	Gln	Glu	Asn	Asp	Lys	
295	1000)				100	5				101	0				1015	
297	tta	aaq	aag	gag	atc	ctc	act	ctt	cag	aag	gat	cta	aag	gat	aag	aat	3484
298	Leu	Lvs	Lys	Ğlu	Ile	Leu	Thr	Leu	Gln	Lys	Asp	Leu	Lys	Asp	Lys	Asn	
299		-1-	- 1		1020					102					103		
	at.t.	cac	att	σασ	aat	tct	tat	qaa	aca	gaa	aga	gca	tta	agc	aga	aaa	3532
302	Val	His	Tle	Glu	Asn	Ser	Tyr	Ğlu	Thr	Glu	Arg	Ala	Leu	Ser	Arg	Lys	
303	2 Val His Ile Glu Asn Ser Ty 3 1035								104		_			104			
	aca	αаа	gag			aga	caq	tta	aaa	qac	ctq	ttg	cag	aaa	tac	aca	3580
306	Thr	Glu	Glu	Len	Asn	Ara	Gln	Leu	Lvs	Ásp	Leu	Leu	Gln	Lys	Tyr	Thr	
307	1111	Jac	105		****			105		•			106		_		
	αaα	σca	aag		. αασ	aaa	gag			ata	gag	gaa	aat	qcc	aag	cag	3628
310	Glu	Δla	Lys	Lvs	Glu	Lvs	Glu	Lvs	Leu	Val	Glu	Ğlu	Asn	Āla	Lys	Gln	
311	Ora	106		212	014	210	107					107	5		-		
212	ant	tot	gag	ato	ctt	αca		-	act	ct.t	t.t.a	cag	aaq	caq	cat	qtt	3676
211	Thr	cor	Glu	Tla	T.011	Δla	Δla	Gln	Thr	Leu	Leu	Gln	Lvs	Gln	His	Уаl	
			GIU	116	пси	108		0111	1111		109	0	-1-			1095	
217	108	0 0+4	gag	aaa	att									aat	aca		3724
210	Dec	Tou	Glu	Cln	Val	Glu	Sar	T.e.ii	Lve	Lvs	Ser	Len	Ser	Glv	Thr	Ile	
	PIO	Leu	GIU	GIII	110		261	Leu	цуз	110		neu	001	017	111	0	
319	~~~		ctc	224			ata	222	act			aga	tat	tat			3772
321	gag	aca mb-	Leu	aay	Clu	Clu	Tou	Lvc	Thr	Live	Gln	Δrσ	Cvs	Tvr	Glu	Lvs	
	GIU	ınr	Leu			GIU	neu	пλэ	1112		0111	y	Cys	112	5	-10	
323	·			111		200	a aa	a+~			ato	cta	gag		-	aag	3820
325	$\alpha = \alpha$	caq	cad	aca	чLФ	acc	cad	uly	cyy	cay	acy	CLY	yuy	uuc	Jug	~~9	_ 3_ 3
200	gag	01-	01-	mh	17-1	mb~	C1 ~	TOU	λra	Cln	Mo+	T.OII	Glu	Δgn	Gln	Lvs	
326 327	Glu	Gln	Gln 113	Thr	Val	Thr	Gln	Leu 113	Arg	Gln	Met	Leu	Glu 114	Asn	Gln	Lys	

VERIFICATION SUMMARY

DATE: 09/21/2001

PATENT APPLICATION: US/09/750,590

TIME: 18:46:18

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\09212001\1750590.raw